# This Page Is Inserted by IFW Operations and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

### IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.



I hereby certify that this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to: Hon. Commissioner for Patents, P. O. Box 1450, Alexandria, VA-22313-1430 on this 12th day of February 2004.

Ву	- Ally V Surrenant
	(Signature of person mailing)  Kelley D. Surprenant
	(Typed or printed name of person)

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Kaneko et al.

Examiner: E. Peselev

APPLICATION NO.: 09/892,081

Group Art Unit: 1623

FILING DATE:

26 June 2001

TITLE:

Novel Macrolide Antibiotics

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

#### 37 CFR § 1.131 DECLARATION OF TAKUSHI KANEKO

Sir:

- 1. I, Takushi Kaneko, Ph.D., am the first-named inventor of the captioned application.
  - 2. I completed the presently claimed invention before 11 May 2000.
- 3. Exhibit A hereto is a copy of a note and invention disclosure (seven pages total) that I prepared and delivered to Seth Jacobs, a Pfizer patent attorney, before 11 May 2000. Exhibit A is redacted only as to the date of the note and invention disclosure, which is before 11 May 2000.
- 4. Exhibit A describes compounds of the presently claimed invention and their preparation. More specifically, there are disclosed therein a generic formula, a synthetic scheme, and an example, of the present invention.
- 5. I further declare that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United

Patent Appln. No. 09/892,081 Atty. Docket No. PC10877A

States Code, and that such willful false statements may jeopardize the validity of the abovecaptioned application or any patent issuing therefrom.

February 3rd, 200%.

Takushi Kaneko, Ph.D.

P. Kushi Kaneko

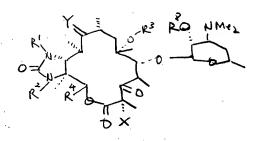
Seth,

Since I will be away next week and don't have those to type Mis, I am sending you a hand written version.

I feel this should be sufficient to get the process moving.

It you have any questions, just send me on ewail please.





R'. R', R' = independently H, lower alkyl, ar (lower) alkyl, heteroanglalkyl

Y = 0, NHOR5, H+NHR6

R5 = lower alkyl, angl, ar (lower)alkyl

R6 = """

医水解囊肿 "这一人"和李颜的一种中华

X = halogen.

R4 = H, C,-C, alleyl, Cz-Cq alkenyl, Cz-Cq alko C6-Cu avacleyl (a la Biotica patents)

R? = H, or ((0) C1-Galkyl, benzyl, benzyloxycarbonyl (C1-Coalkyl) ssilyl Example I.

CH<sub>3</sub> OF

To a solution of 1 (18 mg, 0.021 mmol) in 1.5 ml of DMF was added at -78°C a solution of KHMDS (42 ml of 0.5 M solution in toluenc, 0.021 mmol). After 15 min of stirring at -78°C, a solution of Selectfluor (8.2 mg, 0.023 mmol) in 500 ul of DMF was added dropwise. After 10 min of atirring at -78°C, 5 Methyl sodide (15 ml 0.062 mmol) was added dropwise often. The solution was stirred

esh KHMS TOJUL, 0.025 mmo dropwise 15min. The solution was stirred at this temperature for 11min.

The reaction was quenched by addition of a saturated NaHCOs solution and exhipl acetate. The organic layer was washed with a saturated NaHCOs solution and brine. Drying over Na 250x and removal of the solvent same If my of conde product. It was chromatographed on silica gel (10%. CH2DH-CH2CU2) to give 12 mg (6x %)

I the title compound; MS PPS- (M+1).

Example 1 (continued.

Compound 2 was dissoued in / mh of MeOH and 2 drops of water was added.
The solution was stirred overnight at room temperature. Evaporation of the Solvent gave 12 mg of the title compound; MS 842 (M+1).

Explanation of Scheme I.

Cyclic urea I can be prepared according to our previous application PC - 10/45. Compound 1 (RI + H) is then treated with strong base such as potassium hexamethyldisilazid. (i.e., KHMDS), lighium dissopropylamide (LDA), or sodium hydride in an inert solvent such as DMF or THF at temperature -78° to 0°C, preferrably -78°C for 5min to 3 kvs, prefervably It min. Thon a fluorinating esent such as Selectfluor or N-sphorosulformide

in an inert solvent such so DMF or THF

at -78° to 0°C, preferrably -TP° for 5 min

to 3 hv, preferrably 15 min.

Then an alkylating opent R²-L

(Lis a leaving group such as halogen,

mesylate or tosylate). is added and

the reaction in stirred for 15 min to

12 hvs, preferrably 30 min at -78°

to 50°C, preferrably at rown temperature

The protecting group P' is then removed.

In the case of P' = Ar, by stirring to methanel at 0° to 50°C, preferrably room temperature, for 0.5 hr to 20 lus, preferrably 12 hrs.

In general, fluorination at C2 of macrolide is would in our application PC 10511.

The cyclic usea derivatives are covered in our application PC10141.